Data Sheet (Cat.No.TMPY-05375)

TargetMol

LRRC32 Protein, Human, Recombinant (His), Biotinylated

General Information

Synonyms: leucine rich repeat containing 32;D11S833E;GARP

Protein Construction: A DNA sequence encoding the human LRRC32 (NP_005503.1) (Met1-Asn627) was expressed with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro. Predicted N terminal: His 20

Species: Human

Expression Host: HEK293 Cells

Accession: Q14392

Molecular Weight: 67.5 kDa (predicted)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

LRRC32 (Leucine-Rich Repeat Containing 32) is a Protein Coding gene. This gene encodes a type I membrane protein which contains 20 leucine-rich repeats. LRRC32, also known as Glycoprotein A Repetitions Predominant (GARP), has been postulated as a novel surface marker of activated T(regs). LRRC32 is a T(reg)-specific receptor that binds latent TGF-beta and dominantly controls FOXP3 and the regulatory phenotype via a positive feedback

loop. It belongs to the LRRC32/LRRC33 family and is broadly expressed in the placenta, lung, and other tissues. Alterations in the chromosomal region 11q13-11q14 are involved in several pathologies. An important paralog of this gene is NRROS.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481